

Levon Pogosian

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

4,398
citations

126708

33
h-index

155451

55
g-index

56
all docs

56
docs citations

56
times ranked

2437
citing authors

#	ARTICLE	IF	CITATIONS
1	Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies. <i>Journal of High Energy Astrophysics</i> , 2022, 34, 49-211.	2.4	350
2	Dynamical dark energy in light of the latest observations. <i>Nature Astronomy</i> , 2017, 1, 627-632.	4.2	332
3	Pattern of growth in viable $f(R)$ gravity. <i>Physical Review D</i> , 2007, 75, .	1.6	285
4	Dynamics of linear perturbations in $f(R)$ gravity. <i>Physical Review D</i> , 2007, 75, .	1.6	268
5	Probing Inflation with CMB Polarization. , 2009, , .		252
6	Searching for modified growth patterns with tomographic surveys. <i>Physical Review D</i> , 2009, 79, .	1.6	204
7	Testing gravity with CAMB and CosmoMC. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 005-005.	1.9	187
8	Bounds on cosmic strings from WMAP and SDSS. <i>Physical Review D</i> , 2005, 72, .	1.6	140
9	How to optimally parametrize deviations from general relativity in the evolution of cosmological perturbations. <i>Physical Review D</i> , 2010, 81, .	1.6	119
10	Probing modifications of general relativity using current cosmological observations. <i>Physical Review D</i> , 2010, 81, .	1.6	118
11	Practical approach to cosmological perturbations in modified gravity. <i>Physical Review D</i> , 2013, 87, .	1.6	113
12	Relieving the Hubble Tension with Primordial Magnetic Fields. <i>Physical Review Letters</i> , 2020, 125, 181302.	2.9	110
13	Why reducing the cosmic sound horizon alone can not fully resolve the Hubble tension. <i>Communications Physics</i> , 2021, 4, .	2.0	106
14	Examining the Evidence for Dynamical Dark Energy. <i>Physical Review Letters</i> , 2012, 109, 171301.	2.9	97
15	Seeking string theory in the cosmos. <i>Classical and Quantum Gravity</i> , 2011, 28, 204009.	1.5	94
16	Cosmological Tests of General Relativity with Future Tomographic Surveys. <i>Physical Review Letters</i> , 2009, 103, 241301.	2.9	91
17	The extended Baryon Oscillation Spectroscopic Survey: a cosmological forecast. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 2377-2390.	1.6	83
18	What can cosmology tell us about gravity? Constraining Horndeski gravity with $\hat{\mathcal{L}}_4$ and $\hat{\mathcal{L}}_{\text{G}}^2$. <i>Physical Review D</i> , 2016, 94, .	1.6	80

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19	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. <i>Astrophysical Journal</i> , 2022, 926, 54.	1.6	79
20	POLARBEAR constraints on cosmic birefringence and primordial magnetic fields. <i>Physical Review D</i> , 2015, 92, .	1.6	78
21	Fables of reconstruction: controlling bias in the dark energy equation of state. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 048-048.	1.9	77
22	Evolution of Dark Energy Reconstructed from the Latest Observations. <i>Astrophysical Journal Letters</i> , 2018, 869, L8.	3.0	74
23	Investigating dark energy experiments with principal components. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 025-025.	1.9	71
24	Complementarity of weak lensing and peculiar velocity measurements in testing general relativity. <i>Physical Review D</i> , 2011, 84, .	1.6	67
25	Cosmological tests of general relativity: A principal component analysis. <i>Physical Review D</i> , 2012, 85, .	1.6	66
26	Tracking dark energy with the integrated Sachs-Wolfe effect: Short and long-term predictions. <i>Physical Review D</i> , 2005, 72, .	1.6	65
27	Large-scale structure phenomenology of viable Horndeski theories. <i>Physical Review D</i> , 2018, 97, .	1.6	53
28	Decay of Cosmic String Loops due to Particle Radiation. <i>Physical Review Letters</i> , 2019, 122, 201301.	2.9	50
29	Did BICEP2 See Vector Modes? First B-Mode Constraints on Cosmic Defects. <i>Physical Review Letters</i> , 2014, 112, 171302.	2.9	48
30	Constraints on primordial magnetic fields from Planck data combined with the South Pole Telescope CMB B -mode polarization measurements. <i>Physical Review D</i> , 2017, 95, .	1.6	44
31	Primordial magnetism in the CMB: Exact treatment of Faraday rotation and WMAP7 bounds. <i>Physical Review D</i> , 2011, 84, .	1.6	42
32	Practical solutions for perturbed f R T E Q 0 0 g B T O v e r l o c k 1 0 T f 5 0 2 1 2 T d $($ s t r e t c h $=$ $"$ f a l s e $"$ $)$ $>$	1.6	39
33	Future CMB constraints on cosmic birefringence and implications for fundamental physics. <i>Physical Review D</i> , 2019, 100, .	1.6	36
34	Anthropic predictions for neutrino masses. <i>Physical Review D</i> , 2005, 71, .	1.6	33
35	Phenomenology of large scale structure in scalar-tensor theories: joint prior covariance of w D E Q 0 0 g B T O v e r l o c k 1 0 T f 5 0 2 1 2 T d $($ s t r e t c h $=$ $"$ f a l s e $"$ $)$ $>$ $\hat{\Lambda}$ $\hat{\beta}$	1.6	33
36	Reconstruction of the dark matter–vacuum energy interaction. <i>Physical Review D</i> , 2015, 92, .	1.6	32

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37	Recombination-independent Determination of the Sound Horizon and the Hubble Constant from BAO. <i>Astrophysical Journal Letters</i> , 2020, 904, L17.	3.0	31
38	Scaling configurations of cosmic superstring networks and their cosmological implications. <i>Physical Review D</i> , 2011, 83, .	1.6	30
39	Priors on the effective dark energy equation of state in scalar-tensor theories. <i>Physical Review D</i> , 2017, 96, .	1.6	27
40	Constraints on the Fundamental String Coupling from B-Mode Experiments. <i>Physical Review Letters</i> , 2011, 107, 121301.	2.9	26
41	CMB Faraday rotation as seen through the Milky Way. <i>Physical Review D</i> , 2013, 88, .	1.6	26
42	Probing primordial magnetism with off-diagonal correlators of CMB polarization. <i>Physical Review D</i> , 2012, 86, .	1.6	24
43	Searching for primordial magnetism with multifrequency cosmic microwave background experiments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 438, 2508-2512.	1.6	20
44	Searching for primordial magnetic fields with CMB B -modes. <i>Classical and Quantum Gravity</i> , 2018, 35, 124004.	1.5	19
45	Decay of cosmic global string loops. <i>Physical Review D</i> , 2020, 101, .	1.6	19
46	The evolving dark energy equation of state and cosmic microwave background/large scale structure cross-correlation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2005, 2005, 015-015.	1.9	18
47	Observable physical modes of modified gravity. <i>Physical Review D</i> , 2014, 89, .	1.6	17
48	Searching for scalar gravitational interactions in current and future cosmological data. <i>Physical Review D</i> , 2016, 93, .	1.6	17
49	Consistency of Planck, ACT, and SPT constraints on magnetically assisted recombination and forecasts for future experiments. <i>Physical Review D</i> , 2022, 105, .	1.6	15
50	Correlations between 21-cm radiation and the cosmic microwave background from active sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 407, 1116-1122.	1.6	13
51	COSMIC DEFECTS AND CMB ANISOTROPY. <i>International Journal of Modern Physics A</i> , 2001, 16, 1043-1045.	0.5	8
52	Generalized Brans-Dicke theories in light of evolving dark energy. <i>Physical Review D</i> , 2020, 101, .	1.6	7
53	Primordial magnetism in CMB B modes. <i>Canadian Journal of Physics</i> , 2013, 91, 451-454.	0.4	6
54	Magnetic monopole domain wall collisions. <i>Physical Review D</i> , 2015, 92, .	1.6	5